RATIOS, AVERAGES AND AGES – PRACTICE QUESTIONS

1. A grocer has a sale of Rs 6435, Rs. 6927, Rs. 6855, Rs. 7230 and Rs. 6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Rs, 6500 ?
   a. 4991
   b. 5467
   c. 5987
   d. 6453

2. The average of runs of a cricket player of 10 innings was 32. How many runs must he make in his next innings so as to increase his average of runs by 4 ?
   a. 76
   b. 79
   c. 85
   d. 87

3. A batsman makes a score of 87 runs in the 17th inning and thus increases his average by 3. Find his average after 17th inning?

4. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero ?
   a. 0
   b. -1
   c. 1
   d. NOTA

5. The average of 7 consecutive numbers is 20. The largest of these numbers is :
   a. 21
   b. 22
   c. 23
   d. 24

6. The average weight of 8 persons increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person ?
   a. 70
   b. 75
   c. 80
   d. 85

7. A pupil's marks were wrongly entered as 83 instead of 63. Due to that the average marks for the class got increased by half. The number of pupils in the class is :
   a. 45
   b. 40
   c. 39

d. 37

8. A library has an average of 510 visitors on Sundays and 240 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is :
    a. 285
    b. 290
    c. 297
    d. 305

9. The average of five consecutive odd numbers is 61. What is the difference between the highest and lowest numbers:
    a. 4
    b. 8
    c. 12
    d. 16

10. The average weight of a class of 24 students is 35 kg. If the weight of the teacher be included, the average rises by 400 g. The weight of the teacher is :
    a. 45 kg
    b. 46 kg
    c. 47 kg
    d. 48 kg

11. The average of 11 numbers is 10.9. If the average of the first six numbers is 10.5 and that of the last six numbers is 11.4, then the middle number is :
    a. 10.5
    b. 11.5
    c. 12.5
    d. 13.5

12. 10 years ago, the average age of a family of 4 members was 24 years. Two children having been born (with age diference of 2 years), the present average age of the family is the same. The present age of the youngest child is :
    a. 1
    b. 2
    c. 3
    d. 4

13. The average age of a husband and his wife was 23 years at the time of their marriage. After five years they have a one-year old child. The average age of the family now is :
    a. 25
    b. 23
    c. 19
    d. 18

14. Of the four numbers, whose average is 60, the first is one-fourth of the sum of the last three. The first number is :
    a. 17
    b. 29
    c. 36

d. 48

15. A team of 8 persons joins in a shooting competition. The best marksman scored 85 points. If he had scored 92 points, the average score for the team would have been 84. The number of points, the team scored was :
    a. 665
    b. 657
    c. 658
    d. 678

16. The sum of the present ages of a father and his son is 60 years. five years ago, father's age was four times the age of the son. so now the son's age will be:
    a. 5
    b. 10
    c. 15
    d. 20

17. The average weight of 3 group of friends of 50. 30 & 20 members respectively, are 50 kg 52 kg and 55 kg. What is the average weight of all the friends taken together?
    a. 49 kg
    b. 51.6 kg
    c. 58 kg
    d. 50.2 kg

18. Abhimanyu goes from his office to his house at the speed of 60 kmph and returns to his office at the speed of 100 kmph. What is the average speed for the entire journey? (1) 75 kmph
    a. 75 kmph
    b. 65 kmph
    c. 85 kmph
    d. None of these

19. The average of the age of A,B, C is 25 years. while the average of the age of A, B and D is 28 10 years. If D is 28 years old, then what is the age of C?
    a. 20 years
    b. 18 years
    c. 25 years
    d. None of these

20. The average age of 'p' students of a class is 'a' years. If the average age of 'q' of them is 'b' years, then what is the average age of the remaining students ?
    a. (aq + bp)/2
    b. (ap + bq)/(p + q)
    c. (ap - bq)/(p - q)
    d. (aq - bp)/(q - p)

21. If 6 years are subtracted from the present age of Arun and the remainder is divided by 18, then the present age of his grandson Gokul is obtained. If Gokul is 2 years younger to Madan whose age is 5 years, then what is the age of Arun ?
    a. 72
    b. 54
    c. 60
    d. 47

22. The average age of a class is 15.8 years. The average age of the boys in the class is 16.4 years and that of the girls is 15.4 years. What is the ratio of boys to girls in the class ?
    a. 1:3
    b. 2:3
    c. 3:2
    d. 3:1

23. A person's present age is two-fifth of the age of his mother. After 8 years, he will be one-half of the age of his mother. How old is the mother at present ?
    a. 36
    b. 38
    c. 40
    d. 42

24. Sivagami is 2 years elder than Meena. After 6 years the total of their ages will be 7 times of their current age. Then age of Sivagami is :
    a. 19
    b. 17
    c. 15
    d. CBD

25. The age of a person is thrice the total ages of his 2 daughters. 0.5 decades hence, his age will be twice of the total ages of his daughters. Then what is the father's current age? [0.5 Decades = 5 Years]
    a. 35
    b. 40
    c. 45
    d. 47

26. The ratio of male and female in a city is 7 : 8 respectively and percentage of children among male and female is 25 and 20 respectively. If number of adult females is 156800, what is the total population of the city?
    a. 4,12,480
    b. 3,67,500
    c. 5,44,700
    d. 2,98,948

27. 64 boys and 40 girls form a group for social work. During their membership drive, the same number of boys and girls joined the group. How many members does the group have now, if the ratio of boys to girls is 4:3 ?
    a. 168
    b. 201
    c. 147

d. 154

28. In Maa Yatri Temple every devotee offers fruits to the orphans. Thus, every orphan receives bananas, oranges and grapes in the ratio of 3:2:7 in terms of dozens. But the weight of a grape is 24 gm and weight of a banana and an orange are in the ratio of 4:5, while the weight of an orange is 150gm. Find the ratio of all the three fruits in terms of weight, that an orphan gets

    a. 90:75:42

    b. 180:150:82

    c. 75:42:90

    d. nota

29. There are certain numbers of toys in the box. They are divided into such a way that the person who gets 1/4 of the whole gets thrice of what the others get on an average. Find the number of people amongst whom the toys are distributed?

30. The ratio of students in a coaching preparing for B.tech and MBA is 4 : 5. The ratio of fees collected from each of B.tech and MBA students is 25 : 16. If the total amount collected from all the students is 1.62 lakh, what is the total amount collected from only MBA aspirants?